

1/5

SEQUENCE LISTING

<110> Japan Science and Technology Agency

<120> Mouse Deficient In Glutamate Transporter GLAST Function

<130> G05-0071

<150> JP2003-114793

<151> 2003-04-18

<160> 2

<210> 1

<211> 1629

<212> DNA

<213> Mouse

<400> 1

```

atgaccaaaa gcaacggaga agagcctagg atggggggca ggatggagag attgcagcaa    60
ggggtccgca agcggacact tctggccaag aagaaagttc agagcctcac caaggaagat    120
gttaagagtt acctgtttcg gaatgccttc gtictgctca cggtcactgc tgtcattgtg    180
ggtacaatcc ttggatttgc cctccgaccg tataaaatga gctaccggga ggtgaagtac    240
ttttcgttcc ctggggagct tctcatgagg atgctgcaga tgctggtctt gccctgatc    300
atctccagtc tcgtcacagg aatggcggcc ctagatagta aggcatccgg gaagatgggg    360
atgcgcgctg tagtctatta catgactact accatcattg ctgtggtgat tggcataatc    420
attgtcatca tcatccaccc cggaaagggc acaaaggaaa acatgtacag agaaggtaaa    480
atcgtgcagg tctactgcagc agatgccttc ctggatttga tcaggaacat gttccctccc    540
aatctggtag aagcctgctt taaacagttt aaaaccagct acgagaaaag aagctttaaa    600

```

2/5

gtgcctatcc agtccaacga aacacttctg ggcgccgtga tcaacaacgt gtcagaggcc 660
atggagactc tgacccggat ccgggaggag atggtgcccg tgcctggatc tgtgaatggg 720
gtcaatgccc tgggcctagt tgtcttctcc atgtgcttcg gtttcgtgat cggaacatg 780
aaggagcagg ggcaagcgct gagagagttc tttgattctc ttaacgaagc catcatgcga 840
ttggtcgcgg tgataatgtg gtatgcgcct ctgggcatcc tcttcttgat cgcagggaag 900
attgttgaga tggaagacat ggggtgtgatt gggggacagc ttgccatgta caccgtgaca 960
gtcattgtcg gcctcctcat tcacgccgtc atcgtcctgc ctctcctcta cttcctggta 1020
acccggaaga acccctgggt tticattgga gggttgctgc aagcgctcat cacagccctt 1080
gggacctcct caagttctgc caccctaccc atcactttca agtgcctgga agagaacaat 1140
gggtgtggaca aacgcatcac cagattttgtg ctccccgtgg gggccaccat taacatggat 1200
gggaccgccc tctacgaggc ttggtctgcc attttcatcg ctcaagtga caactttgac 1260
ctgaactttg gacagattat aacaataagc atcacagcca cggccgcaag catcggggca 1320
gccgggattc ctcaggccgg tctggtcacc atggtcacg tgctgacatc tgtgggcctg 1380
cccacagatg acatcacact catcattgca gtggactggg ttctggaccg cctccgaacc 1440
accaccaacg tactgggtga ctccctcgga gcagggattg tcgagcactt gtcccgacat 1500
gaactgaaga accgagatgt tgaaatgggg aactcgggtga ttgaggagaa cgaaatgaag 1560
aagccgtatc agctgattgc ccaggacaat gaaccggaga aaccctgggc agacagcgaa 1620
accaagatg 1629

<210> 2

<211> 543

<212> PRT

<213> Mouse

<400> 2

Met Thr Lys Ser Asn Gly Glu Glu Pro Arg Met Gly Gly Arg Met Glu

1

5

10

15

Arg Leu Gln Gln Gly Val Arg Lys Arg Thr Leu Leu Ala Lys Lys Lys

20

25

30

Val Gln Ser Leu Thr Lys Glu Asp Val Lys Ser Tyr Leu Phe Arg Asn
 35 40 45
 Ala Phe Val Leu Leu Thr Val Thr Ala Val Ile Val Gly Thr Ile Leu
 50 55 60
 Gly Phe Ala Leu Arg Pro Tyr Lys Met Ser Tyr Arg Glu Val Lys Tyr
 65 70 75 80
 Phe Ser Phe Pro Gly Glu Leu Leu Met Arg Met Leu Gln Met Leu Val
 85 90 95
 Leu Pro Leu Ile Ile Ser Ser Leu Val Thr Gly Met Ala Ala Leu Asp
 100 105 110
 Ser Lys Ala Ser Gly Lys Met Gly Met Arg Ala Val Val Tyr Tyr Met
 115 120 125
 Thr Thr Thr Ile Ile Ala Val Val Ile Gly Ile Ile Ile Val Ile Ile
 130 135 140
 Ile His Pro Gly Lys Gly Thr Lys Glu Asn Met Tyr Arg Glu Gly Lys
 145 150 155 160
 Ile Val Gln Val Thr Ala Ala Asp Ala Phe Leu Asp Leu Ile Arg Asn
 165 170 175
 Met Phe Pro Pro Asn Leu Val Glu Ala Cys Phe Lys Gln Phe Lys Thr
 180 185 190
 Ser Tyr Glu Lys Arg Ser Phe Lys Val Pro Ile Gln Ser Asn Glu Thr
 195 200 205
 Leu Leu Gly Ala Val Ile Asn Asn Val Ser Glu Ala Met Glu Thr Leu
 210 215 220
 Thr Arg Ile Arg Glu Glu Met Val Pro Val Pro Gly Ser Val Asn Gly
 225 230 235 240
 Val Asn Ala Leu Gly Leu Val Val Phe Ser Met Cys Phe Gly Phe Val
 245 250 255
 Ile Gly Asn Met Lys Glu Gln Gly Gln Ala Leu Arg Glu Phe Phe Asp

260	265	270
Ser Leu Asn Glu Ala Ile Met Arg Leu Val Ala Val Ile Met Trp Tyr		
275	280	285
Ala Pro Leu Gly Ile Leu Phe Leu Ile Ala Gly Lys Ile Val Glu Met		
290	295	300
Glu Asp Met Gly Val Ile Gly Gly Gln Leu Ala Met Tyr Thr Val Thr		
305	310	315
Val Ile Val Gly Leu Leu Ile His Ala Val Ile Val Leu Pro Leu Leu		
325	330	335
Tyr Phe Leu Val Thr Arg Lys Asn Pro Trp Val Phe Ile Gly Gly Leu		
340	345	350
Leu Gln Ala Leu Ile Thr Ala Leu Gly Thr Ser Ser Ser Ser Ala Thr		
355	360	365
Leu Pro Ile Thr Phe Lys Cys Leu Glu Glu Asn Asn Gly Val Asp Lys		
370	375	380
Arg Ile Thr Arg Phe Val Leu Pro Val Gly Ala Thr Ile Asn Met Asp		
385	390	395
Gly Thr Ala Leu Tyr Glu Ala Leu Ala Ala Ile Phe Ile Ala Gln Val		
405	410	415
Asn Asn Phe Asp Leu Asn Phe Gly Gln Ile Ile Thr Ile Ser Ile Thr		
420	425	430
Ala Thr Ala Ala Ser Ile Gly Ala Ala Gly Ile Pro Gln Ala Gly Leu		
435	440	445
Val Thr Met Val Ile Val Leu Thr Ser Val Gly Leu Pro Thr Asp Asp		
450	455	460
Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp Arg Leu Arg Thr		
465	470	475
Thr Thr Asn Val Leu Gly Asp Ser Leu Gly Ala Gly Ile Val Glu His		
485	490	495

5/5

Leu Ser Arg His Glu Leu Lys Asn Arg Asp Val Glu Met Gly Asn Ser

500

505

510

Val Ile Glu Glu Asn Glu Met Lys Lys Pro Tyr Gln Leu Ile Ala Gln

515

520

525

Asp Asn Glu Pro Glu Lys Pro Val Ala Asp Ser Glu Thr Lys Met

530

535

540

543